

- 4 -

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Figure 6. The effect of the number of iterations (n) on the accuracy of the proposed algorithm. The results are shown for different values of α and β . The x-axis represents the number of iterations (n), ranging from 0 to 100. The y-axis represents the error, ranging from 0 to 1. The legend indicates three cases: $\alpha = 0.5, \beta = 0.5$ (blue line with circles), $\alpha = 0.7, \beta = 0.3$ (red line with triangles), and $\alpha = 0.9, \beta = 0.1$ (green line with squares). In all cases, the error decreases as the number of iterations increases, with the rate of decrease being higher for larger values of α .